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## ENROLLMENT GUIDELINES

All courses are subject to limited enrollment and may be cancelled if numbers do not warrant a place in the timetable. Staffing allocations ultimately determine availability of sections/courses. Administration reserves the right to review section/course numbers each semester.



**Student schedules are subject to change from semester to semester.**

# INTRODUCTION AND GENERAL COMMENTS

The purpose of this guide is to provide pertinent information for students as they select grade 11 and 12 courses. The class of 2024/2025: Graduation Requirement Template should be used as a reference. Please note that all grade 10 courses are required for graduation and are prerequisites for most grade 11 courses, with the exception of Number Relations and Functions 10, if replaced with Financial and Workplace Math 110.

## Choosing Courses:

Each spring, students select courses for the following academic year. There is a wide variety of courses from which to choose in grades 11 and 12, and a number of factors that should be considered when making these choices. It is important that students take time to carefully consider their options since it can be difficult to make changes once scheduling for the year is complete. Additional information may be obtained through the FHS Guidance Department.

## Course Load:

Students are required to take a full course load each semester. **All students must attempt 21 credits in order to be eligible for graduation.** 18 of 21 credits are required for graduation. A student needing an additional semester past the grade 12 year may take the minimum number of courses to complete graduation requirements.

## Course Descriptions:

All courses have a name and number. The first two digits indicate grade, and the third digit indicates the level.

**Open or "0" courses** are offered at one level only.

ex: Human Physiology 110, Child Studies 120

**Level 2 courses** are academic/university/college preparatory.

ex: Music 112, Biology 122

**Level 3 courses** are general/college preparatory.

ex: English 123

**Level 1 courses** are enriched university preparatory.

ex: Chemistry 111, Physics 121

**Advanced Placement (AP) courses** give students the chance to experience university level work in high school. These courses provide preparation for writing the AP Exams in May.

## Prerequisites:

Please read the course descriptions and requirements carefully prior to course selection as many courses have prerequisites. Many courses must be taken in sequence to fulfill the prerequisite; students without prerequisites will not be allowed to take the course. For example, Chemistry 112 must be completed before Chemistry 122.

## Course Fees:

Please note that some courses require additional supplies and/or payment of lab, studio, or other fees.

## Timetables:

Timetables are computer-generated and therefore courses fall by chance into either semester. Some listed courses may be dropped due to insufficient enrollment. For senior students, certain courses required for university and college will not be completed in the first semester. However, applications to post-secondary institutions are usually assessed on past, present, and predicted performance at the time of application.

## Transcripts:

All grade 11 and 12 courses and final marks are permanently recorded on a student's transcript, as well as grade 10 Numbers, Relations & Functions, if applicable. The school transcript provides an ongoing record of high school courses taken and marks obtained. It is the official document required by post-secondary institutions to verify a student's academic record.

## Transfer Students:

Students transferring to FHS from other school systems will have their transcript assessed and graduation requirements adjusted accordingly. Every effort will be made to give credit for acceptable work completed.

## Contact Info:

Fredericton High School  
300 Priestman Street  
Fredericton, NB  
E3B 6J8

Phone: (506) 453-5435  
Fax: (506) 453-3050  
<http://frederictonhigh.nbed.nb.ca>

# FRENCH IMMERSION CERTIFICATE PROGRAM

Students in French Immersion who wish to maintain and improve their proficiency level are encouraged to take a minimum of three French Immersion courses in grade 11.

## CERTIFICATE OF IMMERSION

This certificate is issued by the Anglophone School District West and is offered to all students who have all 5 FI courses in Grade 10, and a total combination of 5 FI courses over Grades 11 and 12.

## CERTIFICATE OF PROFICIENCY

The certificate of Oral Proficiency is issued to **grade 12 students** either in the **Immersion or PIF program** and indicates a student's level of proficiency. Students must be enrolled in an FI or PIF course (of any subject matter). This certificate is awarded by the Department of Education after an assessment by professional evaluators. The certificate is presented upon completion at the end of the semester. There is no cost for this assessment.

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# FOCUS ON INFORMATION TECHNOLOGY (FIT) CERTIFICATE PROGRAM

The Focus on Information Technology (FIT) Program is a national high school program for students interested in pursuing a career in an IT-related field. It provides high school students with technology and business skills, essential workplace skills, and work-related experience. The Information and Communication Technology Council of Canada will provide documentation and certificates to those who qualify.

## FIT BASIC CERTIFICATE

Students who successfully complete the courses in one of the pathways listed below will receive a FIT Certificate upon graduation.

### **Business & Information Analysis**

- Information Technology 120
- Business Organization & Management 120
- Entrepreneurship 110

### **Software Design & Development**

- Information Technology 120
- Business Organization & Management 120
- Computer Science 110

### **Network & System Operations**

- Information Technology 120
- Business Organization & Management 120
- Technical Support 110

### **Interactive Media**

- Information Technology 120
- Business Organization & Management 120
- Digital Production 120

## FIT with EXPERIENCE CERTIFICATE

Students will successfully complete the courses in one of the pathways listed above and will complete Cooperative Education 120 in a related field **OR** 200 hours of documented paid employment or volunteer work outside of school hours. In order to qualify, the experience must be in an approved, appropriate IT-related workplace.

# CLASS OF 2024/2025: GRADUATION REQUIREMENTS

## YEAR 10 COURSES COMPLETED (these are not credits)

_____ English Lit Text 10	_____ FI / Science 10	_____ PDCP 10
_____ English Info Text 10	_____ FI / Social Studies 10	_____ Grade 10 Elective
_____ FI / Math GMF 10	_____ PIF / FILA 10	_____ Grade 10 Elective

## MATH CREDITS (2 credits)

_____ FI / Math NRF 10	_____ FI / Foundations 110 (pre-req: NRF)
_____ Financial & Workplace 110 (pre-req: GMF)	_____ Financial & Workplace 120 (pre-req: Finance 110)

## YEAR 11 & 12 – COMPULSORY (6)

\_\_\_\_\_ ENGLISH LIT TEXT 111, 112, or 113  
\_\_\_\_\_ ENGLISH INFO TEXT 111, 112, or 113  
\_\_\_\_\_ ENGLISH 121, 122 or 123  
\_\_\_\_\_ SCIENCE (one course) from any of:  
    Auto Electrical Systems 120, Biology, Chemistry, Environmental Geography 110, Human Physiology 110, Intro to Electronics 110, Intro to Environmental Science 120, Physics, Robotics & Tech 120  
\_\_\_\_\_ FI / MODERN HISTORY 11  
\_\_\_\_\_ FINE ARTS/LIFE ROLE DEVELOPMENT (one credit) from any of:  
    Auto Electrical Systems 120, Computer Aided Design 110, Co-op Education 120, Creative Arts 110, Cul Tech 110/120, Dramatic Arts 110/120, Electrical Wiring 110, Entrepreneurship 110, Fashion Design 120, Fashion Tech 110, Fine Arts 110, Framing & Sheathing 120, Graphic Art & Design 110, Growth, Goals & Grit 120, Health Care 110, Housing & Design 120, Individual Family Dynamics 120, Internal Combustion Engines 110, Intro to Electronics 110, Metals Fab 110, Metals Processing 110, Mill & Cabinet 120, Music 11/12, Nutrition for Healthy Living 120, Outdoor Education 110, Powertrain & Chassis 110, Reading Tutor 120, Residential Finish 120, Robotics & Technology 120, Sport & Recreation Leadership 120, Tune Up & Emissions 120, Visual Arts 110/120, Wellness Phys Ed 110

## YEAR 11 & 12 – ELECTIVES (10)

9. _____	16. _____
10. _____	Local Options or other electives:
11. _____	17. _____
12. _____	18. _____
13. _____	19. _____
14. _____	20. _____
15. _____	21. _____

## ADDITIONAL NOTES

1. Eighteen (18) credits, including two (2) math and the six (6) other compulsory courses, are required for graduation. **(Only two local options and up to six Co-op courses may be used for the 18 required graduation credits.)**
2. Five (5) grade 12 credits including English 12 are required for graduation.
3. Grade 9 English Language Proficiency Assessment is a requirement for graduation.

**NOTE: The pass mark for all courses is 60%.**

# COURSE PLANNING GUIDE

## Grade 11

1. English 11 Lit Text & Info Text (2 credits: Refer to page 4)

2. Math (2 credits) (refer to page 4)

3. History 11 (refer to page 4)

4. Science (refer to list on page 4)

5. Fine Arts/Life Role Development (refer to list on page 4)

6.

7.

8.

9.

## Grade 12

1. English 12 (1 credit)

2.

3.

4.

5.

6.

7.

8.

9.

10.

**NOTE: One Science and one Fine Arts/Life Role Development must be taken in grade 11 OR grade 12. These are listed on page 4. Eighteen out of twenty-one credits are required for graduation. Only two local options may be used for the 18 required graduation credits. (See list below.)**

### Local Option Electives

Advanced Computer Aided Drafting 120  
Advanced Keyboarding 110  
Art in Atlantic Canada 120  
Aviation Pilot License School 120  
Conceptual Physics 110

Gender, Media & Culture 120  
Geometry 120  
Indigenous Literature 120  
Kinesiology 120  
Maintenance Auto 110

Math Tutor 120  
Oceanography 120  
Recording & Sound Design 120  
World Religions 120

**How many local options may I have? If you are graduating with:**

**21 credits:** up to 5 local options

**20 credits:** 4 local options

**19 credits:** 3 local options

**18 credits:** 2 local options

**\*Wise Tip:** Do not take any more than 2 local options in Grade 11.

**Note:** A student does not need to take any local options if they do not want to.

**NOTE: Students who achieve a mark of greater than 70% in a skilled trades course will be credited with 80 hours towards their trade certification up to a total of 720 hours over their high school career.**

**ADVANCED COMPUTER AIDED DRAFTING 120  
(Local Option, see page 5)**

This course will emphasize mechanical engineering drawing standards and techniques. Students will expand their knowledge of the construction and specification of machine parts through the creation of technical drawings. The course will benefit students planning to attend post-secondary engineering and technology programs.

**Prerequisite:** None

**AGRICULTURE 110**

This course includes the history and evolution of agriculture in New Brunswick which recognizes Indigenous and settler contributions, everyday impacts on life in New Brunswick, and specific types of agriculture predominant in New Brunswick. Learners will apply knowledge of plants and animals to local contexts, to introductory plant growing and animal care research skills, this leads to creating quality agriculture products and/or operations.

**Lab Fee: \$15.00**

**Prerequisite:** None

**AUTOMOTIVE ELECTRICAL SYSTEMS 120**

This course introduces the student to the theory and operation of automotive electrical systems. Students will study the principles of electricity, including electron theory, magnetism, and electrical symbols. Course content progresses to components of the charging, ignition, and starting systems. Study also includes engine management systems, scanning on-board computers, and diagnostics. This course may be used as a science credit for graduation purposes.

**Note: Fine Arts/Life Role Development credit**

**Recommended but not required:** Internal Combustion Engines 110

**COMPUTER AIDED DESIGN 110**

In this course students create technical drawings with part of the course emphasizing the process of design. Students will spend a great amount of time using the computerized drafting system and AutoCAD software. Students interested in post-secondary technology programs, graphic design and all fields of engineering would benefit from this course.

**Note: Fine Arts/Life Role Development Credit**

**Prerequisite:** None

**CULINARY TECHNOLOGY 110 AND 120  
BLOCK (FUTURE CHEF'S CAFÉ)  
(2 credits)**

**\*\*\*Students wishing to take Culinary Courses must fill out an application, available from Guidance, or Ms. Wood in the Future Chefs' Café, room D25.\*\*\***

The Culinary Technology Program is designed to prepare students for employment and/or future education in the food service industry. This technology driven and hands on skill-oriented program involves not only the how and why of food service preparation but focuses on the development of personal skills and food knowledge that can be applied to the food industry. Food Safety Training and food security issues will also be explored.

Culinary Technology 110 has an emphasis on bakeries, baked goods, breads, and breakfast foods.

Culinary Technology 120 has an emphasis on food and meal preparation in an actual restaurant environment.

Students in the Block course (2 credits) will participate in an enriched program that runs an actual restaurant, "The Future Chefs' Café". Students will work in all areas of restaurant preparation, service management, and operation.

Space in the program is limited and entrance will depend upon enrolment numbers and a good attendance record.

**Lab Fee: \$25.00**

**Note: Fine Arts/Life Role Development Credit**

**Prerequisite:** None

**CULINARY TECHNOLOGY 110 (1 credit)**

The Culinary Technology program is designed to prepare students for employment and/or future education in the food service industry.

This technology driven and hands on skill-oriented program involves not only the how and why of food service preparation but focuses on the development of personal skills and food knowledge that can be applied to the food service industry. Food Safety Training and food security issues will also be explored.

Students choosing the single credit 110 course will learn how to produce baked goods and breakfast food for sale in the Future Chefs' Café and other venues.

Culinary Technology 110 has an emphasis on bakeries, baked goods, breads, and breakfast food preparation and production for an actual restaurant environment.

**Lab Fee: \$25.00**

**Note: Fine Arts/Life Role Development credit**

**Prerequisite:** None

**Applied  
Technology  
Continued**

**CULINARY TECHNOLOGY 120 (1 credit)**

The Culinary Technology Program is designed to prepare students for employment and/or future education in the food service industry. This technology driven and hands on skill-oriented program involves not only the how and why of food service preparation but focuses on the development of personal skills and food knowledge that can be applied to the food service industry. Food Safety Training and Food security issues will also be explored. Culinary Technology 120 has an emphasis on food and meal preparation and production for an actual restaurant environment.

**Lab Fee: \$25.00**

**Note: Fine Arts/Life Role Development credit**

**Prerequisite:** None

**ELECTRICAL WIRING (RESIDENTIAL) 110**

Students in this course will study the basic tools, materials and techniques used in residential wiring. Study includes the design and placement of circuits in a model family dwelling, according to the Canadian Electrical Code. The course will be of interest to students interested in exploring careers related to the electrical trade.

**Lab Fee: \$25.00**

**Note: Fine Arts/Life Role Development credit**

**Prerequisite:** None

**FORESTRY 110**

Forests and sustainable forest management have and will continue to play an essential role in the social, environmental, and economic well-being of the province. Forestry 110 will develop an appreciation and understanding of the societal values placed on forested ecosystems, how forests are managed to achieve these values, and the interactions between humans and forests.

**Prerequisite:** None

**FRAMING AND SHEATHING 110**

Students in this course will participate in the planning and construction of wooden structures in a large, well-equipped shop. Students will learn the safe operation of carpentry tools and equipment. Emphasis will be placed on the interpretation of the National Building Code, blueprint reading, estimating and material layout. This course will be of interest to students exploring career opportunities in the building construction industry.

**Lab Fee: \$15.00**

**Note: Fine Arts/Life Role Development credit**

**Prerequisite:** None

**HOUSING AND DESIGN 120**

This course explores various aspects of housing and design through knowledge and applications.

Students will explore topics such as architecture and housing styles, influence of history on housing, interior design (using the principles and elements of design), and consumer concerns related to housing such as renting vs. buying. This course is designed for students who are going to study further in this field as well as students who have an interest in housing and design.

**Lab Fee: \$20.00**

**Note: Fine Arts/Life Role Development credit**

**Prerequisite:** None

**INTERNAL COMBUSTION ENGINES 110**

The content of this course includes the theory of operation and function of the engine systems. Students learn the safe operation of tools and equipment used to disassemble, diagnose, service and repair engine components and systems. Emphasis is placed on the development of skills essential for persons entering the automotive, aircraft or marine service industries.

**Note: Fine Arts/Life Role Development credit**

**Prerequisite:** None

**INTRODUCTION TO APPLIED TECH 110**

This course introduces students to a variety of careers in trades. It provides opportunities to explore and research practices and skills required for employment in trades/technology sectors. This course utilizes small group instruction, placing an emphasis on student directed learning and is structured to reflect the reality of work. Problem identification, teamwork and leadership are reinforced. **Note: Not recommended if you took BBT 10.**

**Lab Fee: \$25.00**

**Prerequisite:** None

**INTRODUCTION TO ELECTRONICS 110**

The basics of electronic theory and components of electronic devices are the subjects of this course. Students learn through a series of lab activities including many types of Direct Current circuit construction. This course will be of interest to students exploring career opportunities in many skilled trades and also those interested in many Engineering and technology disciplines. This course may be used as a Science credit for graduation purposes.

**Note: Fine Arts/Life Role Development credit**

**Recommended but not required:** Successful completion of Grade 10 Math

**MAINTENANCE AUTO 110 (Local Option, see page 5)**

This course is intended to introduce new and prospective drivers to the basic operation of

## **Applied Technology Continued**

automobile fuel, electrical, lubrication, tires, exhaust, and cooling systems. Students learn repair and maintenance procedures typically performed by car owners and enthusiasts in a well-equipped shop.

**Note:** *This course cannot be taken by students who are taking other automotive courses.*

**Prerequisite:** None

### **METALS PROCESSING (MACHINE SHOP)110**

Students in this course develop skills in the operation of lathes, grinders and milling machines. In the lab they learn a variety of processes used to form and repair metal parts for machines and tools. This course would appeal to students considering a career in the mechanic or machinist trades, mechanical engineering or mechanical technology areas.

**Lab Fee: \$35.00**

**Note:** *Fine Arts/Life Role Development credit*

**Prerequisite:** None

### **MILL AND CABINET WORK 120**

Students in this course build a series of wooden products to learn the safe operation of woodworking tools and equipment. They also learn project planning and estimating as well as finishing and installation of cabinets and furniture. This course will be of interest to students exploring career opportunities in the building construction industry as well as those with a general interest in woodworking.

**Lab Fee: \$35.00**

**Note:** *Fine Arts/Life Role Development credit*

**Prerequisite:** None

### **POWER TRAIN AND CHASSIS 110**

This course is designed to develop skill and knowledge in the service and maintenance of the automobile chassis and power train. Emphasis is placed on the function, repair and replacement of components. Topics include spring and shock assemblies, brakes, steering, wheel bearings, tires, transmissions, differential and drive lines. Students exploring career opportunities in the automotive service industry would benefit from this course.

**Note:** *Fine Arts/Life Role Development credit*

**Prerequisite:** None

### **RESIDENTIAL FINISH 120**

This advanced building construction course focuses on the acquisition of skills and knowledge associated with the completion of a modern wood frame residential building. Students work with lab-based projects to select and install insulation, wall and ceiling cladding as well as finish trim, doors and windows.

**Lab Fee: \$25.00**

**Note:** *Fine Arts/Life Role Development credit*

**Prerequisite:** None

### **ROBOTICS AND TECHNOLOGY 120**

This course explores the field of robotics and industrial automation. Through experimentation and simulation labs, students explore computer programming and construct functional examples which integrate pneumatic, electrical, mechanical and computer-controlled devices to mimic real-world machines. Along the way, students develop their technological design, communication and problem solving skills. This course would be of interest to student exploring career opportunities in processing, manufacturing, engineering, or industrial controls. This course may be used as a Science credit for graduation purposes.

**Lab Fee: 10.00**

**Note:** *Fine Arts/Life Role Development credit*

**Prerequisite:** None

### **TUNE-UP AND EMISSION 120**

This advanced automotive course includes the study of automobile fuel and emission systems. Students will study the component functions and service procedures of modern fuel injection, turbo chargers, super chargers and emission systems and how these affect fuel mileage, power and the environment. Students will use various diagnostic tools to read and understand information from vehicle computers, sensors, and trouble codes. Hybrid and zero emission vehicles will also be studied. This course would be of interest to students entering the automotive, aircraft or marine service industries.

**Note:** *Fine Arts/Life Role Development credit*

**Recommended but not required:** Internal Combustion Engines 110 **OR** Automotive Electrical Systems 120

### **WELDING/METALS FABRICATION 110**

Students in this welding course develop basic skills in the safe use of arc and MIG welding equipment. Instruction will also be given in oxygen-acetylene and plasma cutting equipment as well as machines and equipment used to cut and form metals. Students work in a well-equipped, modern welding shop to construct or repair products such as furniture and cargo trailers. This course will appeal to students interested in exploring opportunities in welding metal working and mechanical servicing and many other skilled trades.

**Lab Fee: \$35.00**

**Note:** *Fine Arts/Life Role Development credit*

**Prerequisite:** None



### **SCHOOL-TO-WORK TRANSITION COURSES**

The following school-to-work transition courses feature an experiential component often referred to as a work placement or a Co-op placement. In addition to course content students will gain hands-on experience in a field that they may be interested in pursuing after high school.

Students must complete the minimum of hours required at the workplace to be able to qualify for the credit. Students will complete a second mandatory project and presentation instead of a final examination. **No more than 6 Co-op credits may be used towards graduation.**

Acceptance in these courses is based on an application, transcript to support desired career, attendance, recommendations and an interview.

**Applications must be submitted no later than the last week of April** and are available in the Guidance Office. A code of conduct will be signed by all students. Not meeting the expectations outlined in the code of conduct will result in a referral to FHS Administration and possible removal from the course and loss of credits.

**NOTE: Any school-to-work transition courses will qualify for the Fine Arts/Life Role Development credit. (See page 4.)**

### **CO-OPERATIVE EDUCATION 120 FI CO-OPERATIVE EDUCATION 120 (2 or 3 credits)**

Students may explore any career field (based on availability in our community) for three hours each school day. After the mandatory in-class component is completed, students gain experience in the desired career field for three hours each day for the remainder of the semester.

If the work component is completed with a placement that can offer the experience primarily in the French Language, students would be granted **two out of the three credits towards the F.I. Certificate.**

**Note: Fine Art/Life Role Development credit**  
**Prerequisite:** None

### **CO-OP (EARLY CHILDHOOD) 120**

Early Childhood Co-op is a two or three period co-op program where you work in a licensed childcare center and complete the Early Childhood 90-hour online course. You will complete the co-op course as normal, working in a local childcare center, and you will also spend time working with a childcare expert to complete the online components of the program. You will **earn credits toward graduation** in Co-operative Education 120 and in Early Childhood Services 110 or 120; depending on how you

want to earn credits. You will also earn the **Early Childhood Certificate** that shows you are ready to work in any licensed childcare center in the province.

**Note: Fine Arts/Life Role Development credit**  
**Prerequisite:** None

### **CO-OP (LONG TERM CARE) 120**

Long-Term Care Co-op 120 is a three-period co-op program at a licensed long-term care facility where you will complete classroom and practical training with students from across the province. You will complete the co-op course, working in a care facility with seniors and other individuals needing long-term care. You will **earn credits towards graduation** in Co-operative Education 120 and Health Care 110. You will also receive **employment ready recognition** from the care facilities involved in the program. This means that students successfully completing the program will be eligible for a follow-up preceptorship (96-hour placement) and possible employment with these centers.

**Note: Fine Arts/Life Role Development credit**  
**Prerequisite:** None

### **CO-OP (SKILLED TRADES) 120**

This program is designed to encourage students to explore job opportunities in Skilled Trades fields such as automotive, construction, culinary, etc. This program is open only to students who have successfully completed at least two grade 11 or 12 elective courses related to a specific trade. Students who complete a Co-op placement with a licensed journeyman will be able to use the Co-op work placement hours towards their trade certification (up to 720 throughout their high school years).

**Note: Fine Art/Life Role Development credit**  
**Prerequisite:** None

### **CO-OP (DIGITAL MEDIA PRODUCTION) 120 (1 credits)**

The morning announcements are a vital part of a school's communication plan. Those selected to take part in this program will be responsible for the collection and delivery of the school's daily announcements. As well students will be responsible for a variety of side projects related to film and video editing. While working in the studio, students will be learning how to use professional video editing and motion graphics software, as well as learning about audio engineering and lighting.

**Note: Fine Art/Life Role Development credit**  
**Prerequisite:** None

### **CO-OP (PCMT) 120 (1 or 2 credits)**

Personal Computer Maintenance and Troubleshooting qualifies as an on-site Co-op credit with an emphasis on providing computer

## **Business, Technology, and Family Studies**

support for FHS. Students disassemble and assemble computers, provide service and repair of hardware, complete software upgrades, add computers to the FHS computer labs and troubleshoot individual systems. Students who excel in the course may return for a second credit with exposure to more difficult tasks and team management. An interest in computers and teacher recommendations are required.

**Note:** *Fine Art/Life Role Development credit*

**Prerequisite:** None

### **ADVANCED KEYBOARDING 110 (Local Option, see page 5)**

This course will assist students in developing a touch keyboarding skill and the ability to format in *Microsoft Word*. Students will learn to format personal business letters, cover letters, résumés, tables, and long reports. This course will be beneficial to students who plan to pursue a career in a computer-related field or who plan to attend post-secondary institutions requiring formal assignments.

**Prerequisite:** None

### **AVIATION PILOT LICENCE SCHOOL 120 (Local Option, see page 5)**

This is a Private Pilot ground school course being offered for grade 11 or 12 students who would like to learn the basics of aviation while receiving a full high school credit. The Transport Canada approved course will be taught by an experienced flight instructor and will cover the following topics: airframes and engines, theory of flight, human factors, meteorology, navigation, air law. This opportunity will also allow students to drastically reduce the costs associated with earning a pilot's license if it turns into a passion.

**Prerequisite:** None

### **BUSINESS ORGANIZATION AND MANAGEMENT 120 (FIT--see page 3)**

This is an introductory course in business organization, operation, and management. The understanding of business operations as practiced in Canada is a major objective of the course. The main areas of study include legal forms of ownership, marketing, personal and corporate finance, ethics, advances in information technology, understanding the stock market, and labour management relations.

**Prerequisite:** None

### **CHILD STUDIES 120**

This course is designed for students who are interested in pursuing post-secondary education in early childhood education, pediatric medicine, nursing, child psychology or social work. Topics include heredity, conception, prenatal development, pregnancy and childbirth, as well as child growth and development. Learning

strategies as well as intelligence and attachment theories are a major focus.

**Prerequisite:** None

### **COMPUTER SCIENCE 110 (FIT--see page 3)**

This is an introductory course in structured programming in VISUAL BASIC language. The theory component is limited to programming applications. Topics include entering data, decision making, loops, one- and two-dimensional arrays, sorting, subroutines, main menu programs, library functions, and string manipulation. Students selecting this course should have good mathematics skills. Students use the computer as a problem-solving tool and will find this course of value in future studies or careers in engineering, business administration, technology and science.

**Prerequisite:** None

### **COMPUTER SCIENCE 120**

This course will include a study of high-level languages (mostly JAVA). Advanced concepts and procedures are presented to provide a more comprehensive understanding of computer usage and applications. This is a desirable course for students intending to follow a computer science or data analysis program at a post-secondary institution.

**Recommended but not required:** Computer Science 110

### **CYBERSECURITY & TECH SUPPORT 110 (FIT--see page 3)**

This course provides comprehensive instruction in the cybersecurity and maintenance and repair of computers and peripheral devices, hardware, software, operating systems, networking, and printers. The CISCO Systems IT Essentials curriculum and hands-on activities will give students practical skills to provide basic technical support at the school. Students having successfully completed all required objectives have the option of writing the A+ Certification exams at their own expense.

**Prerequisite:** None

### **DIGITAL PRODUCTION 120 (FIT--see page 3)**

Are you interested in digital imaging, creating web sites, simple animation or digital audio? If so, Digital Technologies 120 can offer you the skills which will allow you to create multimedia and web pages. This class is a skill-based course designed for those who are motivated to learn more about web design, editing images, animation and audio recording.

**Prerequisite:** None

### **EARLY CHILDHOOD SERVICES 110**

This course explores child development principles from infancy to 6 years old. Topics include types of early childhood programs, assessment, curriculum, and qualities of an early childhood worker. Daycare/kindergarten guidelines are examined. Students will plan lessons to teach children ages 4-6 and design a daycare center. Students will make arrangements to do daycare/kindergarten observations.

**Prerequisite:** None

### **ECONOMICS 120**

This course is introductory economics aimed at familiarizing students with economic principles and providing them with an appreciation of the major economic issues in our society such as unemployment, inflation, GDP, provincial and federal budgets, as well as with programs, strategies and regulations created to deal with these issues. Units include introductory concepts, supply and demand, the stock market, economic indicators, money and the Canadian banking system and stabilization policy.

**Prerequisite:** None

### **ENTREPRENEURSHIP 110**

**(FIT--see page 3)**

An exploratory course for students interested in the world of small business, this course is designed to involve students in the development of ideas and skills necessary to bring business ideas to the marketplace. This course allows students to see themselves as business people and appreciate the wide range of opportunities available to creators of an idea, owner-operator of a business, or employer-manager of a small business in today's global economy. There is a written business plan component and several in class presentations. If you want to start your own business or are interested in how business works—this course is for you.

**Note: Fine Art/Life Role Development credit**

**Prerequisite:** None

### **FASHION TECHNOLOGY 110**

This course is designed to introduce students to possible careers in the fashion industry. The course is project based, hands on, and skill oriented. Students will examine the world of textiles, their production process, and learn to identify various fibers and fabrics. Through a variety of small projects, including a sample portfolio and the creation of a personal garment, students will learn to follow commercial patterns and apply current construction techniques using both a sewing machine and a serger. Prior

sewing experience is NOT required. This course is a prerequisite for Fashion Design 120.

**Lab fee: \$25.00 plus cost of project supplies**

**Note: Fine Arts/Life Role Development credit**

**Prerequisite:** None

### **FASHION DESIGN 120**

This course is designed to give students the opportunity to create, learn, and explore in the field of fashion design. In addition to theory, students will work hands on with a variety of technologies to design and create their own mini collection including a basic accessory. Students will develop sketching techniques to create fashion illustrations, learn the basics of pattern drafting, put together a design portfolio, and learn about fashion promoting and marketing. Basic sewing will NOT be taught.

**Lab fee: \$25.00 plus cost of project supplies**

**Note: Fine Arts/Life Role Development credit**

**Prerequisite:** Fashion Technology 110 OR demonstration of basic sewing techniques and knowledge of commercial patterns

### **GROWTH, GOALS & GRIT 120**

This course is designed to help students prepare to live on their own. In this course, students will learn organization, time management, and communication skills such as goal setting, financial literacy, housing options, consumerism, healthy lifestyle, and positive mental health strategies. Students will explore habits and behaviours that will enhance their success in life.

**Note: Fine Arts/Life Role Development credit**

**Prerequisite:** None

### **HOSPITALITY AND TOURISM 110**

Students will explore the sectors of the Travel Industry including accommodations, food and beverage, adventure tourism, and transportation. Students will have the opportunity to create and evaluate Hospitality and Tourism through its past and into the future. Students will learn valuable customer service skills and create a dream vacation for themselves through a term project. The skills learned will benefit the students with transferable skills for future employment opportunities. This course will explore areas of travel and tourism opportunities around the globe.

**Prerequisite:** None

### **INDIVIDUAL AND FAMILY DYNAMICS 120**

Students will explore their own personal development through the study of themselves and their relationships with others. Topics such as personality development, self-awareness, relationships, dating, love, marriage and family, sexuality, reproductive systems, birth control and sexually transmitted diseases, wellness and aging, will be studied. This course is an

**Business,  
Technology,  
and Family  
Studies  
Continued**

excellent introduction to studies in sociology, psychology, teaching, social work, and family life education.

**Note:** *Fine Art/Life Role Development credit*

**Prerequisite:** None

**INFORMATION TECHNOLOGY 120**

**(FIT--see page 3)**

The objective of the IT120 course is to prepare students with the advanced skills required to be successful on the exams for Microsoft certification using Microsoft desktop software. Microsoft exams provide a reliable measure of a person's technical proficiency and expertise by evaluating their overall comprehension of Microsoft Office software, and the ability to use advanced features along with the ability to integrate Office programs with other software. These skills will be of use to students in their post-secondary pursuits. Topics include Microsoft Word, PowerPoint, Excel, and Outlook.

**Prerequisite:** None

**INTRODUCTION TO ACCOUNTING 120**

This course introduces students to the procedures, concepts and applications of accounting. Topics which will be covered include the nature of business, accounting as a possible career, bookkeeping procedures, accounting theory, and the entire accounting cycle. In addition, we will look at various forms of business enterprises such as sole proprietorships, partnerships and corporations. This course is designed for students in business at a post-secondary institution.

**Lab fee: \$20.00 for required workbook.**

**Prerequisite:** None

**LAW 120**

This course will provide students with a basic knowledge of the Canadian legal system and its operations as well as an awareness of the impact of the law on their lives. It will introduce the concepts and principles of civil and criminal law. Major topics include foundations of the legal system, criminal law, human rights, torts, and family law. Students will experience practical exposure to the law through guest speakers, a courtroom visit and daily current event discussions.

**Prerequisite:** None

**MARKETING 120**

This course is designed to introduce students to many of the marketing functions and activities that occur within the Canadian marketplace. Areas of focus include marketing strategies, product development and branding, and advertising. A portion of the course will involve self-directed learning whereby the students will

demonstrate their understanding of the material through project work.

**Prerequisite:** None

## English

Language Arts courses are skill-based programs of study that focus on three main areas of development: speaking and listening, reading and viewing, writing and representing. Through the high school years, students will develop an awareness of how language works in a wide range of genres and will develop flexibility in using language.

**Note:** *Though Grade 11 English courses are divided into two sections, students are working toward full-year learning goals.*

### **CANADIAN LITERATURE 120**

The goal of the Canadian Literature 120 curriculum is to promote an interest in important Canadian literature and other creative texts. The course is for students who demonstrate an interest in literature and deconstructing texts, and who wish to explore Canadian identity through a variety of literary texts worthy of study and appreciation.

**Prerequisite:** English 10

### **ENGLISH LANGUAGE ARTS INFORMATIONAL TEXTS 111**

This enriched course is recommended for students who excelled in grade 10 English and who enjoy reading and writing. Students will be expected to think critically and independently, engage in meaningful academic conversation, and devote the required time and energy to the production of engaging texts. The focus for this section will be informational Texts.

**Prerequisite:** English 10

### **ENGLISH LANGUAGE ARTS LITERARY TEXTS 111**

This enriched course is recommended for students who excelled in grade 10 English and who enjoy literature. Students will be expected to think critically and independently, engage in meaningful academic conversation, and devote the required time and energy to the production of engaging texts. The focus for this section will be Literary Texts.

**Prerequisite:** English 10

### **ENGLISH LANGUAGE ARTS INFORMATIONAL TEXTS 112**

This course is designed for students whose future plans may include university study. The areas of study focus on formal and informal composition, oral communication to convey ideas, analysis of various texts, and exploration of literary theories and perspectives. Students will work independently and collaboratively. The focus for this section will be Informational Texts.

**Prerequisite:** English 10

### **ENGLISH LANGUAGE ARTS LITERARY TEXTS 112**

This course is designed for students whose future plans may include university study. The areas of study focus on formal and informal composition, oral communication to convey ideas, analysis of various texts, and exploration of literary theories and perspectives. Students will work independently and collaboratively. The focus for this section will be Literary Texts.

**Prerequisite:** English 10

### **ENGLISH LANGUAGE ARTS INFORMATIONAL TEXTS 113**

This course is designed for students whose immediate future plans do not include university. The areas of study focus on practical reading, writing, and speaking skills. A collaborative film-making unit provides opportunity for students to share their stories and ask questions about the world. Most work is done in class and valuation includes teacher-student conferences. The focus for this section will be Information Texts.

**Prerequisite:** English 10

### **ENGLISH LANGUAGE ARTS LITERARY TEXTS 113**

This course is designed for students whose immediate future plans do not include university. The areas of study focus on practical reading, writing, and speaking skills. A collaborative film-making unit provides opportunity for students to share their stories and ask questions about the world. Most work is done in class and valuation includes teacher-student conferences. The focus for this section will be Literary Texts.

**Prerequisite:** English 10

### **ENGLISH LANGUAGE ARTS 121**

This enriched course is designed for students who excelled in English 111/112. It provides opportunity for the student to appreciate, experience, and interpret literature through group discussion and an application of literary theory and criticism. Class members are expected to contribute to guided discussions and are urged to develop an independent and critical understanding of material (print, visual, and audio)

**Prerequisite:** English 111/112

### **ENGLISH LANGUAGE ARTS 122**

This course is designed for students whose future plans may include university study. Students are expected to exercise independent and critical thinking as textual material is studied as a class, in groups, and individually. Formal writing is emphasized as a measure of student competency in writing and interpreting. Increasingly challenging textual material will be

**English  
Continued**

presented to students to guide them along the continuum of text complexity.

**Prerequisite:** English 111/112

**ENGLISH LANGUAGE ARTS 123**

This course is designed for students whose immediate future plans do not include university. The emphasis is placed on clear communication, through both the written and spoken word. Students will continue their study of fiction, nonfiction, and all types of text. Guided assignments will provide ample opportunity for students to demonstrate their literacy skills.

**Prerequisite:** English 113

**GENDER, MEDIA, AND CULTURE 120 (*Local Option, see page 5*)**

This elective course for grades 11/12 students enables them to explore gender and media through the study of a range of equity issues in Canada and around the world. Gender, Media, and Culture is designed to welcome and celebrate students of all academic ranges, identities, and gender diversity.

**Prerequisite:** None

**JOURNALISM 120**

Journalism 120 is an elective course that is flexible enough to accommodate students with a wide range of interests and abilities. It helps develop student expertise in concise and accurate writing while providing opportunities to practice critical thinking, writing, and representing skills in a variety of real-world situations. The course is inquiry-based and emphasizes the role of a journalist to bear witness, to document, and to provide a narrative of the daily life of a society and the world. Students will develop a deeper understanding of the importance of well-informed literate citizens to maintain a democratic society. They will think critically, work cooperatively and collaboratively, discuss and deconstruct relevant issues, research, write persuasively, and understand news values.

**Prerequisite:** None

**MEDIA STUDIES 120**

This course is designed to help students become media literate and understand the impact of mass media on society. It explores texts such as films and television shows, songs and advertisements, sports and games, packaging and clothing, online and offline information sources, blogs and social networking sites. Students will develop the skills needed to respond to these texts intelligently and responsibly when they encounter them. Those enrolling Media Studies should demonstrate a

desire to view, listen, speak, read, write, create, and represent.

**Prerequisite:** None

**READING TUTOR 120**

This course presents a unique opportunity for students with good academic achievement, excellent attendance and good communication skills. Under the guidance of the instructor, tutors work on a one-to-one basis with students who are seeking to raise their reading level and to improve their writing skills. Tutors learn basic reading theory and teaching techniques, and are assigned one student to work with for the term. A real commitment is required (in attendance and day by day planning), since the student depends on the tutor. This is a chance to make a positive contribution to our school and to a local elementary school, to acquire leadership skills, and to experience a real-life-teaching situation.

**Note: *Fine Art/Life Role Development credit***

**Prerequisite:** English 111/112

**WRITING 110**

This is an elective course for grade 11/12 students who wish to improve and enrich their writing skills. The focus will be on writing as a process: brainstorming, outlining, drafting, polishing, and publishing. Students will participate in four writing modules, which may include: Narrative, Descriptive, Poetry, or Expository writing. Within the course structure there is opportunity for creative expression. Assessment will be frequent and will include portfolio assessment, term projects, and publishing assignments.

**Prerequisite:** None

**English as  
an  
Additional  
Language**

The WIDA MODEL test is used to identify students who would benefit from EAL classes. This test measures speaking, listening, reading and writing in the areas of Social and Instructional Language, English Language Arts, Mathematics, Science, and Social Studies. After the WIDA test, a recommendation is made for one or more of the following courses:

**EAL 110 ESSENTIALS A1.1**

This course will build essential English skills in the areas of speaking, listening, reading, and writing, with a particular focus on building foundational literacy and communicative skills. In addition to focusing on foundational literacy and basic oral communication skills, this course provides the opportunity for students to learn new cultural norms in a supportive environment.

**EAL 110 ESSENTIALS A1.2**

This course will build essential English skills in the areas of speaking, listening, reading, and writing, through meaningful, authentic task-based learning. The focus is placed on communicative tasks required for common social interactions and immediate needs. In addition to focusing on oral communication skills, high frequency language and essential vocabulary, reading and writing are supported explicitly through foundational literacy skills. These courses provide students with essential strategies for successful English language learning and cultural competency.

**EAL 120 CONNECTIONS A2.1 AND  
EAL 120 CONNECTIONS A2.2 (A2 LEVEL)**

These courses will further strengthen English skills, with the focus placed on communicative tasks that support the development of reading, writing, and interacting (speaking/listening) in English. These courses transition students from learning to read to reading to learn. Learners are provided with opportunities to develop writing skills, academic vocabulary, reading strategies, socio-cultural competencies, and strategies for academic success.

**EAL 120 EXPRESSIONS B1.1 AND  
EAL 120 EXPRESSIONS B1.2 (B1 LEVEL)**

These courses will further enhance English skills, with the focus placed on developing a wide range of literacy skills through interacting (speaking/listening), reading and writing for a variety of purposes and audiences. Learners are provided with opportunities to expand on writing skills, academic vocabulary, reading strategies, social-cultural competencies, and strategies for academic success.

**WRITING 110**

The focus is on writing different text-types for a variety of purposes and audiences. As a community of EAL writers, students follow the writing process to write creatively as well as practice the skills of demand writing and editing. Students learn the traits of “good” writing, improve their applied grammar skills, and produce portfolios to showcase their final pieces. Although the focus is on writing, students develop their reading and speaking skills, as well.

**Note:** *Students may be required to repeat a Pathway depending on their language development, but the course content will change to meet the needs of the learner.*

## Fine Arts

### **ART IN ATLANTIC CANADA 120 (Local Option, see page 5)**

How does Atlantic Canada influence its visual artists, and how in turn is their visual art reflected in Atlantic Canadian Culture? This course will uniquely blend art history (specifically, that of NB and the Maritimes) the study of current issues impacting the production of visual arts, and a personalized studio experience in which students can respond to the course content in the visual art media of their choice. A specific focus on curation and the production of artist statements will further the study of artistic intent and purpose, improving student disciplinary literacy. Visits to New Brunswick art galleries and institutions are a vital part of the course.

**Studio Fee: \$15.00**

**Prerequisite:** Visual Arts 10

### **CREATIVE ARTS 110**

Creative Arts 110 is an overview course designed for all learners who have an interest in the arts (Music, Visual Art, Drama, Dance, and others). It is designed to encourage students to develop skill in understanding, appreciating, and connecting to various art forms through exposure to a variety of challenges and problems requiring creativity and higher order thinking. Students will be required to work both individually and collaboratively and are encouraged to design their learning in collaboration with teachers. Input and guidance from industry professionals and/or mentors is also encouraged. Learners are encouraged to demonstrate learning through creating art; however, the emphasis for assessment is demonstrating understanding of a concept rather than developing technical skill.

**Note: Fine Art/Life role Development credit**

**Prerequisite:** None

### **DRAMATIC ARTS 110**

Dramatic Arts 110 is an introductory performance-based course designed to encourage students to develop their dramatic skills through exposure to a variety of challenges and opportunities that require creative and higher order thinking skills related to creativity, performance, and production. This course is highly participatory and requires consistent attendance to facilitate the development of collaborative projects and student engagement in new experiences. Students will be required to work individually, independently, in small groups, and in larger ensembles. Projects and research activities will be activity based experiential learning. Students will be exposed to a wide range of dramatic conventions and styles for the purposes of creating, analyzing, conducting research, and performing.

**Note: Fine Art/Life Role Development credit**

**Prerequisite:** None

### **DRAMATIC ARTS 120**

Dramatic Arts 120 is a course that assumes an enhanced level of theatrical experience. Successful completion of Dramatic Arts 110 is highly encouraged, but not required. In collaboration with their teacher and peers, students are encouraged to direct their learning and decide how to demonstrate the acquisition of skills. Students will be expected to have more involvement and ownership of their learning and subsequent assessment, collecting evidence of learning, and expanding upon the skills acquired in Dramatic Arts 110. Students may be required to work outside of the classroom (including individual/ensemble practice and studio rehearsal) due to the many and varied manifestations of theatre activities. Students are also strongly encouraged to participate in extracurricular and community-based opportunities.

**Note: Fine Art/Life role Development credit**

**Prerequisite:** None

### **GRAPHIC ART AND DESIGN 110**

Utilizing industry standard software (Photoshop and Illustrator), the Graphic Art and Design 110 course will give base skills in developing various projects. These software skills coupled with learning in design theory (typography, colour, composition), will allow for the development of unique layouts, logos, advertising, etc.

**Note: Fine Art/Life Role Development credit**

**Prerequisite:** None

### **MUSIC 111 (Instrumental/Voice/Piano)**

This course is for anyone who has played an **orchestra or concert band instrument** for the last 3+ years or who is currently **studying voice or piano** privately and has a strong performance/theory background. Approximately 40% of class time is spent on developing playing technique and in performing a varied repertoire. The balance of the time is spent on theory, history, analysis, and composition.

**Note: Fine Art/Life Role Development credit**

**Prerequisite:** 3+ years band/orchestra **OR** serious private study experience

### **MUSIC 112 (General Music: Piano/Guitar/Choral)**

This course is designed for the general level piano, guitar or choral student who has the ability to read music on his/her instrument and completed the grade 10 music course. Approximately 40% of the class time is spent on the further development of playing technique and performing a varied repertoire. The balance of the time is spent on theory and



**Fine Arts  
Continued**

performance/composition-type projects.

\* Piano or guitar or choral class will be offered separately where numbers allow.  
will be offered separately where numbers allow.

**Note: Fine Art/Life Role Development credit**

**Prerequisite:** Grade 10 Piano/Guitar/Choral

**MUSIC 122 (Instrumental)**

This course is designed for any student interested in advanced music studies. The course assumes an advanced level of music literacy, good aural skills, a sound theoretical background, knowledge of historical styles and forms, and an interest in improving and expanding these areas of music knowledge and expertise. It is a performance-based course designed to encourage students to develop their musical skills through exposure to a variety of musical challenges and problems requiring creative and higher order thinking skills.

**Note: Fine Art/Life Role Development credit**

**Prerequisite:** Students should have successfully completed Music 11 prior to beginning this course, however, students may apply to the teacher with evidence of private study and/or appropriate level of proficiency.

**RECORDING & SOUND DESIGN 120 (Local Option, see page 5)**

This course is designed for the student who has an interest in audio recording and design. The student will receive instruction in the physics of sound, looping, MIDI, microphone techniques, and recording and sound design. Learning time will be divided between recording sessions in the recording studios, curriculum-based projects on the Mac computer and class projects.

**Priority given to grade 12 students.**

**Prerequisite:** Music 11 **OR** Music 12 **OR** by permission of the instructor

**VISUAL ARTS 110**

The Visual Arts 110 course moves towards a personal expression while receiving teacher mentoring in disciplines such as figure drawing, composition, and clay works among others.

**Studio fee: \$15.00**

**Note: Fine Art/Life Role Development credit**

**Prerequisite:** None

**VISUAL ARTS 120**

Want to develop a mixed media and multidisciplinary portfolio? The Visual Arts 120 course allows you multiple options in four blocks of study: utilizing drawing, painting, design, and sculptural skill sets. Bring your unique conceptual ideas to life!

**Studio fee: \$15.00**

**Note: Fine Art/Life Role Development credit**

**Recommended but not Required:** Visual Arts 110

**Note:** *Applications and recommendations forms are available on the FHS website.*

### **ADVANCED TRAINING PRINCIPLES 120**

This course develops physical fitness of students as they learn practical (power lifting techniques, body building, plyometric exercises, cross-, endurance-, alternative and speed-training) and theoretical (sport nutrition, supplementation issues, physiology, biomechanics, sport specific training programs) aspects of physical training.

**Prerequisite:** None

### **HEALTH CARE 110**

This course introduces students to content and concepts related to health care and the healthcare system. Students will learn how the Canadian healthcare system works and will be introduced to various medical professionals that work within the system. Students will learn what it takes to be a professional within the different healthcare occupations. They will examine the rights of a healthcare consumer, develop an awareness of related environmental and societal issues and will begin to explore secondary and post-secondary pathways leading to careers in the field.

**Note:** *Fine Arts/Life Role Development credit*

**Prerequisite:** None

### **HUMAN SERVICES 110**

The overall aim of Human Services is to increase students' awareness of the importance of human service work. Inclusive communities and an aging population are creating many opportunities in the human service field. This course will develop work-related competencies and explore post-secondary learning, innovations and careers in the human service industry.

**Note:** *Fine Arts/Life Role Development credit*

**Prerequisite:** None

### **KINESIOLOGY 120(Local Option, see page 5)**

This course is designed for students planning to take kinesiology, science, or nursing at the university/college level. This will be a fully developed academic course which will include a variety of engaging instructional practices and group activities including demonstrations, student presentation, guest speakers, as well as activities that will enhance the students' knowledge of kinesiology. Students will develop their skills in critical thinking and problem solving while using technology as a tool to enhance their knowledge. Topics covered during this course will include human anatomy, exercise science, recreation and sport studies, as well as careers in Kinesiology.

**Prerequisite:** None

### **NUTRITION FOR HEALTHY LIVING 120**

Informative class which provides the student with accurate details on healthy food choices and proper nutrition throughout the lifecycle. This course also looks at social concerns regarding food including the problems arising from living in an affluent society as well as the devastation of hunger. Focus is on the nutrients; carbohydrates, fats, and protein, and how they impact our daily food choices. Students interested in pursuing careers in nutrition, dietetics, Kinesiology or personal training, or those wishing to improve their personal knowledge of a healthy lifestyle and overall fitness, should strongly consider this course.

**Note:** *Fine Arts/Life Role Development credit*

**Prerequisite:** None

### **OUTDOOR EDUCATION 110**

The focus of this course is to develop personal outdoor recreation skills based on environmental ethics. Class outings are included into the final assessment and may take place during class or for an extended period of time. The class will participate in several half day and full day outings as well as a **mandatory overnight camping excursion**. \* **Students are responsible for communicating to teachers and collecting work missed during the class outings.** The course will take advantage of local outdoor adventure areas; activities may include hiking, canoeing, rock climbing, and swimming. (Many of these activities have an elevated risk of injury when safety guidelines are not followed.) Students must be prepared to plan, lead and evaluate outing experiences from a personal and group perspective.

Students are admitted to the course based on:

1. Strong attendance during the previous academic year.
2. Ability to work independently and collaboratively with minimal supervision.
3. Mature and responsible work ethic.

**Course Fee:** \$75 payable at the beginning of the course. This fee is to offset the cost associated with transportation, equipment rental, facility rental, supplies, etc.

**Note:** *Fine Arts/Life Role Development Credit*

### **OUTDOOR EDUCATION 110 / ENVIRONMENTAL SCIENCE 120 BLENDED OPTION**

Students may choose to sign up for both Outdoor Education and Environmental Science and take them concurrently through this new blended course option. Interested students will enrol in both courses and complete an Expression of Interest form. Students will participate in both courses throughout the entire year on an alternating schedule. (Day 1 – OE, Day 2 – ES, etc.). Course outcomes and grades will be separate, and students will receive two

**Health &  
Physical  
Education  
Continued**

credits upon successful completion in June. This option is for students who are interested in both subject areas and wish to deepen the connections between the scientific content in Environmental Science and the active and experiential aspect of Outdoor Education.

**Note: Fine Arts/Life Role Development credit**

**Prerequisite:** None

**SPORT & RECREATION LEADERSHIP 120**

The focus of this course is to develop leadership skills through the medium of physical education and recreation. The following inter-related units will be considered throughout the semester: Leadership Theory, Sports Administration, Teaching, Officiating, Coaching and sports Medicine. Students will also be required to teach specific lessons/skills as part of their developmental experience. Students must also commit to volunteering 30 volunteer hours. Some of this time may be assigned at lunch time (intramurals) or after school

**Note: Students failing to complete this mandatory component of the course will not receive the credit.**

Students are admitted to the course based on:

1. Strong attendance during the previous academic year.
2. Ability to work independently and collaboratively with minimal supervision.
3. Mature and responsible work ethic.

**Note: Priority given to grade 12 students.**

**Note: Fine Art/Life Role Development credit**

**Prerequisite:** None

**WELLNESS PHYS ED 110**

This course is intended to allow students an opportunity to be active, while further enhancing their decision-making skills towards personal wellness. This course will be offered to grade 11 and 12 students only. 40% of the course will be theoretical in a classroom setting, with the remaining 60% spent on practical work in an active setting. This course will help students increase their awareness of the role of physical activity towards a healthy, active lifestyle.

**Course fee: \$50** payable at the beginning of the course. This fee is to help offset costs associated with transportation, equipment rental, etc.

**Note: Fine Art/Life Role Development credit**

**Prerequisite:** None

**YOGA 110**

Yoga 110 will explore the physical and mental aspects of yoga – develop the acquisition and development of skills including strength, flexibility, cardiovascular endurance, balance, regulation of energies through breath and mental focus. The Yoga 110 course will allow students to participate in various activities

including the yoga physical practice, personal reflection, partner assessment, group discussions and classroom theory. Forty percent of the course will be classroom based – topics will include: the history of yoga, the essentials of nutrition, ethical principles (kindness, generosity, mutual respect, and humanity). Explore exercise that help empower students, foster positive mental health and mental fitness, and help produce purposeful members of our school communities and society.

**Students are required to supply their own yoga mat.**

**Prerequisite:** None

## Mathematics

### CALCULUS 120

This is the last course offered in the Pre-Calculus Pathway and follows *Pre-Calculus B 120*. This course develops the concepts of average and instantaneous rates of change. Derivatives are determined by applying the definition of a derivative and the derivative rules including the Chain Rule and are determined for trigonometric functions. Limits and derivatives of exponential and logarithmic functions are found. Calculus techniques are used to sketch graphs of functions, and to solve optimization problems. Problems are solved involving inverse trigonometric functions, involving related rates, and involving the application of the integral of a function from a variety of fields. The definite integral and the antiderivative of a function are determined.

**Note:** *This course is recommended for students interested in post-secondary programs in science, engineering, and mathematics, though it may not be a required entrance requirement. Students should check entrance requirements for the specific program and institution in which they are interested.*

**Prerequisites:** Pre-Calculus A 120 AND Pre-Calculus B 120

### FINANCIAL & WORKPLACE MATH 110

#### FI FIANCIAL & WORKPLACE MATH 110

This course is the first of two courses designed for entry into many trades and technical programs and for direct entry into the work force. Concepts of right triangles, trigonometry, and angles of elevation and depression are applied to contextual problems. Scale models and drawings of 2-D and 3-D objects are constructed from various views and perspectives. Students are challenged to solve problems that involve numerical reasoning. Costs and benefits of renting and leasing and buying are explored, investment portfolios analyzed, and personal budgets developed. Students manipulate and apply formulas in a variety of ways and solve problems using proportional reasoning and unit analysis.

**Prerequisite:** Geometry, Measurement & Finance 10.

### FINANCIAL & WORKPLACE MATH 120

This is the second of two courses in the Financial and Workplace pathway designed for entry into post-secondary trades and technical programs or for direct entry into the work force. Topics include measuring, sine and cosine laws, properties of polygons, transformations of 2-D and 3-D shapes, small business finance, linear relationships, data interpretation, and probability. Opportunity is given to research and present an

historical event or an area of interest that involves mathematics.

**Prerequisite:** Financial and Workplace Math 110 OR Foundations of Mathematics 110.

### FOUNDATIONS OF MATHEMATICS 110

#### FI FOUNDATIONS OF MATHEMATICS 110

This course is a pre-requisite for a second **Foundations of Mathematics** course in Grade 12 providing a pathway designed for entry into academic programs not requiring pre-calculus. It is also a pre-requisite for the pre-calculus pathway. Students develop logical reasoning skills and apply this to proofs and problems involving angles and triangles, the sine law and the cosine law. Students model and solve problems involving systems of linear inequality in two variables and explore characteristics of quadratic functions. Costs and benefits of renting and leasing and buying are explored, and investment portfolios are analyzed.

**Prerequisites:** Geometry, Measurement and Finance 10 AND Number, Relations and Functions 10.

### FOUNDATIONS OF MATHEMATICS 120

This is the second of two courses in the Foundations of Mathematics pathway designed for entry into post-secondary academic programs not requiring pre-calculus. In statistics students are introduced to normal curves, and learn to interpret statistical data, using confidence intervals, confidence levels, and margins of error. To develop logical reasoning, students analyze puzzles and games, and solve problems that involve application of set theory and conditional statements. The validity of odds and probability statements are assessed, and problems are solved that involve probability of two events, the fundamental counting principle, permutations, and combinations. The binomial theorem is used to expand powers of a binomial. Data is represented using polynomial functions, exponential and logarithmic functions and sinusoidal functions to solve problems. This course completes the Foundations of Mathematics pathway.

**Prerequisite:** Foundations of Mathematics 110

### GEOMETRY 120 (*Local Option, see page 5*)

In this course, students will study geometry to a deeper level. This course builds on the reasoning and geometry units previously covered in Foundations of Mathematics 110. Students will study the history of geometry, focusing on Euclid's Elements, mathematical proof techniques, properties of polygons and circles, modelling using geometric software, and co-ordinate geometry. This course is intended for those students who both enjoy math and

wish to challenge themselves in order to gain a deeper insight into these topics.

**Prerequisite:** Foundations of Mathematics 110

**NBCC SKILLED TRADES AND WORK-READY MATH 120 – Dual Credit with NBCC (MATH 1208)**

NBCC Skilled Trades and Work-Ready Math 120 gives students the opportunity to practice skills individually, to solve problems with others, and to work on projects that incorporate mathematics. The intent of this course is that students become proficient with concepts in-context, so they can easily apply skills in workplace situations. Student should become familiar and proficient with the terms 'accuracy' and 'precision' and be able to determine what measuring tool is appropriate in various situations and will provide the required level of accuracy/precision. Lessons could also feature the opportunity to work with measurement tools such as a tape measure, metal ruler, micrometer, calipers, protractors, etc., in context. Imperial and S.I. units may be explored with a focus given to those most commonly found in the context of a post-secondary program or jobsite (ex: fractional inch).

**Prerequisite:** Financial Workplace Math 110

**PRE-CALCULUS 110**  
**FI PRE-CALCULUS 110**

This course, followed by later courses in Pre-Calculus and Calculus, is designed for entry into post-secondary programs requiring Pre-Calculus. Students demonstrate an understanding of absolute value of real numbers and solve problems that involve radicals, radical expressions, and radical equations. Students determine equivalent forms, simplify rational expressions, and solve problems that involve rational equations. They develop an understanding of angles in standard position ( $0^\circ$  to  $360^\circ$ ) and solve for these angles using the three primary trigonometric ratios. Polynomial expressions are factored, and absolute value functions and quadratic functions are analyzed and graphed. Students solve problems that involve quadratic equations and solve, algebraically and graphically, problems that involve systems of linear-quadratic and quadratic-quadratic equations in two variables. They also solve problems that involve linear and quadratic inequalities in two variables, and quadratic inequalities in one variable.

**Prerequisite:** Foundations 110

**PRE-CALCULUS A 120**  
**FI PRE-CALCULUS A 120**

This course is a pre- or co-requisite for **Pre-Calculus B 120**. Students demonstrate and apply an understanding of the effects of

horizontal and vertical translations, horizontal and vertical stretches, and reflections on graphs of functions and their related equations. They are introduced to inverses of functions, logarithms, and the product, quotient and power laws of logarithms and use these laws and the relationship between logarithmic and exponential functions to solve problems. Students are introduced to angles in standard position, expressed in degrees and radians, and to the unit circle. The six trigonometric ratios and the sine, cosine and tangent functions are used to solve problems. First and second-degree trigonometric equations are solved algebraically and graphically with the domain expressed in degrees and radians. Trigonometric identities are proven using reciprocal, quotient, Pythagorean, sum or difference, and double-angle identities.

**Prerequisite:** Pre-Calculus 110

**PRE-CALCULUS B 120**  
**FI PRE-CALCULUS B 120**

This course is a pre-requisite for **Calculus 120**. Students analyze arithmetic and geometric sequences and series to solve problems. They learn to factor polynomials of degree greater than 2, and to graph and analyze polynomial functions. They also graph and analyze radical, reciprocal and rational functions, building a function toolkit. Students are introduced to the concept of limits and determine the limit of a function at a point both graphically and analytically. They explore and analyze left and right-hand limits as  $x$  approaches a certain value using correct notation, analyze the continuity of a function and explore limits which involve infinity.

**Pre- or Co-requisite:** Pre-Calculus A 120

## Science

### **BIOLOGY 111**

This course is designed for the student who is self-motivated with a genuine interest in science. The course topics are the same as the Biology 112 course; however, they will be covered in greater depth.

**Prerequisite:** Science 10

### **BIOLOGY 112**

#### **FI BIOLOGY 112**

This course is geared to students who have an interest in nature and living things. Laboratory work and demonstrations will supplement classes. Topics covered are cell biology, classification, and a survey of the Kingdoms of life.

**Prerequisite:** Science 10

### **BIOLOGY 121**

This course is designed for students who have demonstrated a high level of achievement in previous science courses. Topics covered include the nervous system, the endocrine system, the reproductive system, genetics, the structure of DNA, DNA synthesis, protein synthesis and an overview of the chordates. Students taking this course may elect to write the AP Biology exam.

**Prerequisite:** Science 10

**Recommended by not required:** Biology 111/112 and Chemistry 111/112

### **BIOLOGY 122**

This course is recommended for students who intend to study science at university. Topics covered include the reproductive system, mitosis & meiosis, genetics, the structure of DNA, DNA replication, protein synthesis, genetic engineering, and evolution.

**Prerequisite:** Science 10

**Recommended by not required:** Biology 111/112 and Chemistry 111/112

### **CHEMISTRY 111**

This is an enriched chemistry course designed for students with a strong work ethic who are planning to take courses in science or engineering at the university level. Students selecting this course should have at least 90% in science and mathematics. This course covers all the topics from Chemistry 112, with enrichment in topics such as molecular orbital theory limiting reagents and empirical/molecular formulas. As well, students must complete a guided independent study on gas laws.

**Prerequisite:** Science 10

**Recommended by not required:** NRF10 and Foundations of Mathematics 110

### **CHEMISTRY 112**

#### **FI CHEMISTRY 112**

This is an introductory course in chemistry. This course continues to build upon chemical concepts learned in grade 10. Students planning to take nursing, engineering, or science (pure and applied) should consider taking this course. Topics covered are atomic bonding, chemical reactions, mathematical calculations related to reactions and solutions.

**Prerequisite:** Science 10

**Recommended by not required:** Foundations of Mathematics 110

### **CHEMISTRY 121**

A continuation of Chemistry 111 designed for serious science students who plan to further their science education at the post-secondary level. The course covers all of the topics covered in Chemistry 122, with enrichment, plus a unit on electrochemistry, solubility equilibrium, reaction mechanisms and rate laws. Students taking this course may elect to write the AP chemistry exam.

**Prerequisite:** Chemistry 111/112 **AND** Foundations of Mathematics 110

### **CHEMISTRY 122**

Students planning on taking science, engineering or nursing should take this course. It is a continuation of Chemistry 112. Topics covered include organic chemistry, chemical equilibrium, acid-base chemistry and energy changes. A good background in Chemistry 11 and Foundations of Mathematics 110 is an asset.

**Prerequisite:** Chemistry 111/112 **AND** Foundations of Mathematics 110

### **ENVIRONMENTAL GEOSCIENCE 110**

The course provides a general introduction to physical geography and includes such topics as: The Earth as a rotating planet, Weather and Climate systems, Systems and Cycles of the solid Earth, Volcanoes, Tectonics, Landform Evolution, Soils, the Environment and the Biosphere. This is a hands-on course that requires students to work independently in a field research setting (multiple field trips during the semester). This course is recommended to those who are planning on pursuing university or college programs in geology, forestry, civil engineering, urban or rural planning or any field related to the mining industry. We recommend that students have a strong showing in Science 10 as we will be covering topics related to both physics and chemistry.

**Prerequisite:** Science 10

**Science  
Continued**

**HUMAN PHYSIOLOGY 110**

This course is designed to appeal to a wide range of learners, including students for whom this will serve as their science graduation requirement. The goal of this course is to build an understanding of the physiology of the human body. Throughout the course students will build their scientific literacy skills as they learn more about the different body systems and how they relate to each other. With this knowledge, students will be challenged to identify a physiological limitation and create an innovative product to assist individuals with that limitation. By the end of the course students will have more in-depth knowledge about their body and have made a positive contribution to their community.

**Prerequisite:** Science 10

**INTRO TO ENVIRONMENTAL SCIENCE 120**

The objective of this course is for students to develop the knowledge base and skills for investigating and analyzing environmental issues and for communicating their knowledge and analysis to others. Students will:

1. Identify the impact of personal behaviours on the environment, and recognize that caring for and sustaining natural environments is an element of responsible global citizenship..
2. Analyze and propose solutions to current environmental issues through research, experimentation, and a presentation of their findings with respect to the issue.

**Note:** *Students must have a strong work ethic and be able to work on independent/group work.*

**Note:** *All students will participate in a School Sustainability Project and/or a Wetland Centre of Excellence project.*

**Prerequisite:** Science 10

**PHYSICS 111**

An enriched physics course for the motivated science student. Students electing to take this course should have better than average ability in mathematics and science. Topics covered are the same as those in Physics 112 plus optics and interference of light.

**Prerequisite:** Science 10

**Recommended but not required:** NRF 10  
**AND** Foundations of Mathematics

**PHYSICS 112**

An introductory physics course designed for students intending to go to university or technical school following graduation. Topics include kinematics and dynamics in one

dimension, momentum, work, energy and power, waves, light and sound.

**Prerequisite:** Science 10

**Recommended but not required:** Foundations of Mathematics 110

**PHYSICS 121**

A continuation of Physics 111 designed for above-average physics students. The course covers the same topics as Physics 122 plus torque and rotational motion. Students who take Physics 111/112, Physics 121 and AP Physics 2 120 will complete all of the content of a first year university course. Students may elect to write the AP Physics 1 exam.

**Prerequisite:** Physics 112/111 **AND** Foundations of Mathematics 110

**PHYSICS 122**

Students planning to take science or engineering at university should take this course. It is a continuation of Physics 112. Topics covered include 2-dimensional kinematics and dynamics, circular motion, gravitation, electric and magnetic fields, static and current electricity. It is highly recommended to students who are considering taking this course that they have successfully completed Pre-Calculus /FI Pre-Calculus 110.

**Prerequisite:** Physics 112 **AND** Foundations of Mathematics

**Second  
Languages/  
Modern  
Languages**

**Registration criteria for FI, Core and PIF**

Students who have taken French Immersion courses are not eligible for PIF Courses

Students who have taken French first language Courses (i.e. francophone transfer students) are not eligible for French Immersion Courses or PIF Language Arts courses.

**Oral Proficiency Assessment: Grade 12**

An oral proficiency assessment will be administered to all Grade 12 students enrolled in a French course (ie. Immersion or PIF). Students will receive a certificate of oral proficiency at the end of the grade 12.

**FI LANGUAGE ARTS 110**

Students taking this course must have successfully completed Grade 10 FI Language Arts. This course is designed to maintain and further develop French linguistic skills by taking into consideration the four aspects of the language (reading, writing, listening, speaking). Oral participation is essential. There will be a complete study of one play.

**Prerequisite:** FI Language Arts 10

**FI LANGUAGE ARTS 120**

This course is designed to maintain and further develop French linguistic skills by taking into consideration the four aspects of the language (reading, writing, listening, and speaking). Oral participation is essential.

**Prerequisite:** FI Language Arts 10

**FI TECHNIQUES DE COMMUNICATIONS 110**

This course is open to grade 11/12 students who wish to improve their oral and written skills in French. The program includes a variety of communication activities. The oral component is a very important aspect of the course.

**Prerequisite:** FILA 10 OR PIF 10

**FI TECHNIQUES DE COMMUNICATIONS 120**

This course is open to grade 11/12 students who wish to improve their oral and written skills in French. The program includes a variety of communication activities. The oral component is a very important aspect of the course.

**Prerequisite:** FILA 10 OR PIF 10

**PIF (Post Intensive French) 110**

This course is designed for students who have successfully completed Post-Intensive French in grades 9 and 10. Different themes are explored to improve students' understanding (reading and listening) and production (speaking and writing) of French.

**Prerequisite:** Post-Intensive French 10

**PIF (Post Intensive French) 120**

The course is designed for students who have successfully completed Post-Intensive French in grade 10. Different themes are explored to improve students' understanding (reading and listening) and production (speaking and writing) in French.

**Prerequisite:** Post-Intensive French 10

**SPANISH 110**

The primary objective of this introductory course is to develop initial communicative abilities in the Spanish language. Students taking this course will experience continual practice in communicating and will become familiar with common Hispanic customs and traditions. This course is open to grade 11 and 12 students.

**Prerequisite:** None

**SPANISH 120**

Spanish 120 builds on students' competence and provides students with opportunities to develop their competence to a Basic level as defined by the New Brunswick Second Language Oral Proficiency Scale.

Students completing this course will be able to satisfy minimum courtesy requirements and maintain very simple face-to-face conversations on familiar topics. The student will be able to ask for help and to verify comprehension of native speech in face-to-face interaction.

Students interested in post-secondary Spanish courses are encouraged to take this class as it permits a more in-depth study of the language.

**Recommended but not required:** Spanish 10



**Note:** *French Immersion students are encouraged to choose FI Modern History and FI World Issues.*

### **CANADIAN HISTORY 122**

This is a Canadian History course for grade 11/12 students interested in history and wanting to learn more about the five key relationships that make up Canadian History and how they have evolved over time. Emphasis will be on relationships between English and French, Aboriginal peoples, Immigrants and individuals and the State and our relationships with the United States and the United Kingdom.

**Prerequisite:** None

### **MODERN HISTORY 111/112/113 FI MODERN HISTORY 112**

This course is designed for students who plan to attend post-secondary institutions. With a focus on historical thinking skills, students will examine select significant events and forces in the western world over the past 400 years. To understand the purpose of citizenship in a liberal democracy, and with the goal of creating civically minded people, topics will include rights and revolution, nationalism and war, and crimes against humanity. Students will gain a more inclusive understanding of historical concepts, social histories, as well as political and economic foundations. While becoming increasingly proficient in historical thinking, research, and analysis, students will also demonstrate a competence in written and oral expression.

**Prerequisite:** Social Studies 10

### **INDIGENOUS STUDIES 120**

This course is designed to help students gain an understanding of the Wabanaki Nations and traditional cultures in the Maritime Atlantic region (past, present, and future) and to see how First Nations and non-First Nations views have influenced the course of events in the Maritimes. Units include language and culture, religion and spirituality, ancient times, arts and crafts, community and colonial relations with a focus on native culture and traditions. This elective is open to all grade 11/12 students who are interested in developing an understanding of First Nations culture and their perspectives on various indigenous issues.

**Prerequisite:** None

### **POLITICAL SCIENCE 120**

This course is designed as an introduction to basic principles of the study of politics. Emphasis is placed on the student's development of analytical and critical thinking skills. Use is made of historical and current documents. Individual seminars and

group projects form a significant part of the learning experience. Time will be spent in learning the basic concepts and terminology of political science and in developing the basic skills of political science research. Topics include Canadian and American government systems, characteristics of political systems and current political happenings.

**Prerequisite:** Modern History 11

### **PSYCHOLOGY 110**

This course is an introduction to psychology. Students will begin to explore psychology as a science that seeks to answer all sorts of questions about us all – how we think, feel and act. Students will learn to think critically as they explore human nature in depth. The field of psychology explores many topics such as – careers in psychology, how research is collected and used, the psychology of culture and gender, how our consciousness is altered through sleep, dreams and hypnosis, psychological disorders, such as schizophrenia and other personality disorders. This is a great introductory course for students interested in pursuing psychology or any other related field or for anyone interested in learning more about human nature.

**Prerequisite:** None

### **PSYCHOLOGY 120**

This is an elective course open to students in grade 11/12. This course is a continuation of Psychology 110. Students will continue to explore psychology as a science that seeks to answer all sorts of questions about human behavior – why we think, feel and act the way we do. Students will explore motivation and emotion, perspectives on personality development, how we learn, memory, the nature of intelligence, stress and health, social relations and treatments for psychological disorders.

**Recommended but not required:** Psychology 110

### **SOCIOLOGY 120**

This course is designed to be a broad introduction to the field of sociology. Students will explore the links between society and individual experiences, and develop the ability to critically examine, and better understand their own beliefs about the social world. Through various teaching and learning methods, students will learn about such topics as culture, socialization, social control, and social movements. They will investigate major dimensions of inequality, including race, class, gender, ability, and sexuality. Throughout the course, students will consider issues of social justice, what "justice" means, and how the tools

**Social  
Studies  
Continued**

of sociological inquiry can be applied to promote a more just world.

**Prerequisite:** Modern History 11

**WORLD ISSUES 120**

**FI WORLD ISSUES 120**

This course is a study of global issues implementing the experiential learning model. It focuses on current world problems with emphasis on current events, their historical background, present situation, attempted solutions, and ongoing problems. Students investigate current issues and country conflicts, with seminar presentation, Socratic circles, and discussion. Think global, act local!

**Prerequisite:** None

**WORLD RELIGIONS 120 (*Local Option, see page 5*)**

This course will explore major religious belief systems in the world including Aboriginal Spirituality, Hinduism, Buddhism, Judaism, Christianity, and Islam. The course will explore religious ideas of deity, milestones across religions, and the afterlife. The course will examine issues in Canada or elsewhere (terrorism, sexuality, for example) impacted by religious beliefs that affect the decision-making and the way of life of Canadians. This course complements studies in History, Political Science, Religious Studies, and Sociology.

**Prerequisite:** None

## **Advanced Placement Program (AP)**

### **ADVANCED PLACEMENT PROGRAM® (AP)**

The Advanced Placement Program® (AP) enables willing and academically prepared students to pursue college-level studies while still in high school. AP courses on a student's transcript shows that they have challenged themselves with the most rigorous courses available to them. And success on an AP Exam shows that they are ready for college-level coursework. Most four-year colleges and universities grant students credit, placement, or both for qualifying AP Exam scores. AP Exams are given in **May** each year.

**AP Courses offered at Fredericton High School:**

#### **AP BIOLOGY 120**

AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore topics like evolution, energetics, information storage and transfer, and system interactions. Study the core scientific principles, theories, and processes that govern living organisms and biological systems.

**Prerequisite:** Biology 122 or Biology 121 recommended; Chemistry 112 or Chemistry 111. Students must have one chemistry course and one biology course completed prior to starting.

#### **AP CALCULUS & PRE-CALCULUS AB 120**

Students enrolling in this full-year course will receive credits for Pre-Calculus A 120, Pre-Calculus B 120 and AP Calculus AB 120. This course is an enriched program of study covering three semesters of work in two. It is designed to challenge students with a very high ability in mathematics who can handle work at an accelerated pace. Topics covered are described above.

**Prerequisites:** Pre-Calculus 110 **AND** the recommendation from your Grade 11 math teacher who will provide an application form for interested students.

#### **AP ENGLISH LANGUAGE AND COMPOSITION 120**

The AP English Language and Composition course focuses on the development and revision of evidence-based analytic and argumentative writing, the rhetorical analysis of nonfiction texts, and the decisions writers make as they compose and revise. Students evaluate, synthesize, and cite research to support their arguments. Additionally, they read nonfiction texts from a range of disciplines and historical periods. Open to grade 11 & 12 students.

**Prerequisite:** English 10

### **AP ENGLISH LITERATURE AND COMPOSITION 120**

The AP English Literature and Composition course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis to deepen their understanding of the ways writers use language to provide both meaning and pleasure. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works.

**Note:** *Open to grade 12 students*

**Prerequisite:** English 112/111

#### **AP MICROECONOMICS 120**

Study the principles of economics that apply to the behaviour of individuals within an economic system. You will use graphs, charts, and data to analyze, describe, and explain economic concepts.

Skills you will learn:

- ✓ Define economic principles and models
- ✓ Explain given economic outcomes
- ✓ Determine outcomes of specific economic situations
- ✓ Model economic situations using graphs or visual representations

**Recommended but not required:** NRF 10

#### **AP PHYSICS 2 120**

This course is offered to above-average science students who intend to take science or engineering at the university level. Topics covered include the study of magnetism, electromagnetism, atomic structure, quantum mechanics, nuclear physics, thermodynamics and fluid mechanics. This course is designed to supplement previous chemistry and physics courses. It is highly recommended that students intending to write the AP Physics 1, AP Physics 2 and the AP Chemistry exams take this course.

**Prerequisites:** Physics 111/112, Chemistry 111/112, Physics 121/122, AND Foundations of Mathematics 110

**Co-requisites:** Chemistry 122/121

#### **AP PSYCHOLOGY 120**

AP Psychology is designed to introduce students to the systematic and scientific study of the behavior and mental health processes of human beings. Students are exposed to the psychological facts, principles and phenomena associated with psychology. Content area include- research methods, behavior, sensation & perception, states of consciousness, and developmental, abnormal and social psychology. This course is equivalent to an introductory

**Advanced  
Placement  
Program  
(AP)  
Continued**

university course in psychology. Students taking this course may elect to write the AP Psychology exam. Entrance to the course is based on previous academic performance.

**Prerequisite:** None

**AP RESEARCH 120**

Build on what you learned in AP Seminar to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, you will design, plan, and conduct a year-long research-based investigation to address a research question.

Skills you will learn:

- ✓ Conducting independent research
- ✓ Analyzing sources and evidence,
- ✓ Applying context and perspective,
- ✓ Writing a college-level academic paper
- ✓ Presenting research findings to an audience

**Prerequisite:** AP Seminar

**AP SEMINAR 110**

This is an introductory AP class for grades 10 and 11 and serves as a prerequisite for AP Research. Develop and practice the skills in research, collaboration, and communication that you will need in any academic discipline. You will investigate topics in a variety of subject areas, write research-based essays, and design and give presentations both individually and as part of a team.

Skills you will learn:

- ✓ Reading and analyzing articles, studies, and other texts
- ✓ Gathering and combining information from sources
- ✓ Viewing an issue from multiple perspective
- ✓ Crafting arguments based on evidence.

**Prerequisite:** English Language Arts 9

**Students can earn the AP Capstone Diploma™ or the AP Seminar and Research Certificate™.**

Students who earn scores of three or higher in AP Seminar and AP Research and on four additional AP exams of their choosing receive the AP Capstone Diploma™.

Students who earn scores of three or higher in AP Seminar and AP Research but not on four additional AP exams receive the AP Seminar and Research Certificate™.

**AP STATISTICS 120**

Learn about the major concepts and tools used for collecting, analyzing, and drawing conclusions from data. You will explore

statistics through discussion and activities, and you will design surveys and experiments.

Skills you will learn:

- ✓ Selecting methods for collecting or analyzing data
- ✓ Describing patterns, trends, associations, and relationships in data
- ✓ Using probability and simulation to describe probability distributions and define uncertainty in statistical inference
- ✓ Using statistical reasoning to draw appropriate conclusions and justify claims

**Recommended but not required:** NRF 10

**AP WORLD HISTORY 120**

This is an enriched history course designed for students who are interested in exploring how the histories of various parts of the world are interconnected. If the AP exam is written this may be used as a university credit. Discussion and research study along development of analytical and critical thinking skills will be emphasized. Individual and group seminars will be a part of the learning experience.

**Prerequisite:** Modern History 111/112



Not sure what career path you would like to follow? Are you unsure of your interests, strengths, and motivations? myBlueprint is an academic planner that offers assessments, search tools, and videos to help you explore these questions. Best of all, it is Canadian information.

FHS started using this in February 2019 so some students may already have an account through their Personal Development and Career Planning 10 class. If not, please feel free to follow the steps below to create an account. After completing the assessments, it is a good idea to book an appointment to follow up with your guidance counsellor about exploring your results and the questions that follow.

How to Create a New Account:

1. Visit [myBlueprint.ca/anglophone west](https://myBlueprint.ca/anglophone-west)
2. Click 'Sign Up'
3. Enter Activation Key - Fredericton
4. Select Your School: Fredericton High
5. Select 'Create Account'
6. Select 'Student'
7. What Grade Are You In: Select your grade.
8. Enter Education Number (the long number next to your name on your schedule)
9. Enter Birthdate
10. Select an email you use and remember. Select Password you will remember.
11. For assessments, click the 'Who Am I' tab on left side of the screen. There are multiple assessments to choose from.

### Alphabetical Listing of Courses

<b>Advanced Computer Aided Drafting 120</b>	6	EAL 120 Expressions B1.1	15	<i>Internal Combustion Engines 110</i>	7
<b>Advanced Keyboarding 110</b>	10	EAL 120 Expressions B1.2	15	Intro to Accounting 120	12
Advanced Training Principles 120	18	EAL 110 Writing	15	Intro to Applied Tech 110	7
Agriculture 110	6	Early Childhood Services 110	11	<i>Intro to Electronics 110</i>	7
<b>Art in Atlantic Canada 120</b>	16	Economics 120	11	Intro to Environmental Science 120	23
AP Biology 120	27	<i>Electrical Wiring (Residential) 110</i>	7	Journalism 120	14
AP Calculus & Pre-Calculus AB 120	27	English Language Arts 121	13	<b>Kinesiology 120</b>	18
AP English Language & Composition 120	27	English Language Arts 122	13	Law 120	12
AP English Literature & Composition 120	27	English Language Arts 123	14	<b>Maintenance Auto 110</b>	7
AP Microeconomics 120	27	English Language Arts Info Text 111	13	Marketing 120	12
AP Physics 2 120	27	English Language Arts Info Text 112	13	Media Studies 120	14
AP Psychology 120	27	English Language Arts Info Text 113	13	<i>Metals Processing (Machine Shop) 110</i>	8
AP Research 120	28	English Language Arts Lit Text 111	13	<i>Mill &amp; Cabinet Work 120</i>	8
AP Seminar 110	28	English Language Arts Lit Text 112	13	Modern History 110	25
AP Statistics 120	28	English Language Arts Lit Text 113	13	<i>Music 111</i>	16
AP World History	28	<i>Entrepreneurship 110</i>	11	<i>Music 112</i>	16
<i>Automotive Electrical Systems 120</i>	6	Environmental Geoscience 110	22	<i>Music 122</i>	17
<b>Aviation Pilot License School 120</b>	10	<i>Fashion Design 120</i>	11	NBCC Skilled Trades & Work-Ready Math 120	21
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Biology 112	22	FI Biology 112	22	<i>Outdoor Education 110</i>	18
Biology 121	22	FI Chemistry 112	22	<i>Outdoor Education 110 / Environmental Science 120 Block</i>	18
Biology 122	22	<i>FI Co-op Education 120</i>	9	Physics 111	23
Business Organization & Management 120	10	FI Financial & Workplace Math 110	20	Physics 112	23
Calculus 120	20	FI Foundations of Mathematics 110	20	Physics 121	23
Canadian History 122	25	FI Language Arts 110	24	Physics 122	23
Canadian Literature 120	13	FI Language Arts 120	24	Political Science 120	25
Chemistry 111	22	FI Modern History 112	25	Post Intensive French 110	24
Chemistry 112	22	FI Pre-Calculus 110	21	Post-Intensive French 120	24
Chemistry 121	22	FI Pre-Calculus A 120	21	<i>Power Train &amp; Chassis 110</i>	8
Chemistry 122	22	FI Pre-Calculus B 120	21	Pre-Calculus 110	21
Child Studies 120	10	FI Techniques de Communications 110	24	Pre-Calculus A 120	21
<i>Computer Aided Design 110</i>	6	FI Techniques de Communications 120	24	Pre-Calculus B 120	21
Computer Science 110	10	FI World Issues 120	6	Psychology 110	25
Computer Science 120	10	Financial & Workplace Math 110	20	Psychology 120	25
<i>Co-op (Digital Media) 120 (1cr)</i>	9	Financial & Workplace Math 120	20	<i>Reading Tutor 120</i>	14
<i>Co-op Education 120 (2 or 3cr)</i>	9	Forestry 110	7	<b>Recording &amp; Sound Design 120</b>	17
<i>Co-op (Early Childhood) 120</i>	9	Foundations of Mathematics 110	20	<i>Residential Finish 120</i>	8
<i>Co-op (Long Term Care) 120</i>	9	Foundations of Mathematics 120	20	<i>Robotics &amp; Technology 120</i>	8
<i>Co-op (PCMT) 120 (1cr)</i>	9	<i>Framing and Sheathing 110</i>	7	Sociology 110	25
<i>Co-op (Skilled Trades) 120</i>	9	<b>Gender, Media, &amp; Culture 120</b>	14	Spanish 110	24
<i>Creative Arts 110</i>	16	<b>Geometry 120</b>	20	Spanish 120	24
<i>Culinary Technology 110</i>	6	<i>Graphic Art &amp; Design 110</i>	16	<i>Sport &amp; Recreation Leadership 120</i>	19
<i>Culinary Technology 120</i>	7	<i>Growth, Goals &amp; Grit 120</i>	11	<i>Tune-up &amp; Emission 120</i>	8
<i>Culinary Technology 110/120 Block</i>	6	<i>Health Care 110</i>	18	<i>Visual Arts 110</i>	17
Cybersecurity & Tech Support 110	10	Hospitality & Tourism 110	11	<i>Visual Arts 120</i>	17
Digital Production 120	10	<i>Housing &amp; Design 120</i>	7	<i>Welding/Metals Fab 110</i>	8
<i>Dramatic Arts 110</i>	16	Human Physiology 110	22	<i>Wellness Physical Education 110</i>	19
<i>Dramatic Arts 120</i>	16	Human Services 110	18	World Issues 120	26
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EAL 110 Essentials A1.2	15	<i>Individual &amp; Family Dynamics 120</i>	11	Writing 110	14
EAL 120 Connections A2.1	15	Information Technology 120	12	Yoga 110	19
EAL 120 Connections A2.2	15				

\*Local Options are in bold

\*Fine Art/Life Role are italicized